AUSTRALIAN MONITOR
INTEGRATION INTELLIGENCE

INSTALLATION AND OPERATION MANUAL

XRS SERIES

POWERED AND PASSIVE LOUDSPEAKERS

IMPORTANT SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
17. Mains plug is used as disconnected device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
18. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
20. The apparatus should be disconnected from the mains completely before speaker wiring. The speaker output should be proper protected from direct contact and pay attention to speaker connections, terminals and speaker wiring during normal operation.

PRÉCAUTIONS DURANT UTILISATION

1. LISEZ ces instructions.
2. Tenez ces instructions.
3. Notez tous les avertissements.
4. Suivez toutes les avertissements.
5. N'utilisez pas ce produit près de l'eau (la piscine, la plage, le lac, etc.).
6. Nettoyez seulement avec une étoffe sèche.
7. Ne bloquez aucuns troux de ventilation. Installez en accord avec les instructions du manufacturier.
8. N'installez près aucunes sources de chaleur comme radiateurs, registres de chaleur, fours ou les autres équipements (y compris amplificateurs) qui produisent la chaleur.
9. Ne défaites pas le but de sécurité de la fiche polarisée ou base-type. Une fiche polarisée a deux tranchants avec un plus large que l'autre. Une fiche de base type a deux a deux tranchants et une troisième pointe de base, le tranchant large ou la troisième pointe est fourni pour votre sécurité. Si la fiche donnée ne conforme pas votre prise de contact, consultez un électricien pour remplacement de la prise de contact obsolète.
10. Protegez le cordon de secteur contre être marchée dessus ou pincez en particulier aux fiches, aux douilles de convenance, et au point où ils sortent de l'appareil.
11. Seulement utilisez attachements/accessoires spécifiés par le manufacturier.
12. Utilisez seulement avec un chariot, un stand, un trépied, un support ou une table indiquée par le manufacturier, ou vendue avec l'appareil. Quand un chariot est utilisé, faites attention en déplaçant la combinaison d'appareil/chariot pour éviter de se déséquilibrer.
13. Arrachez la fiche du dispositif durant éclair et orage ou quand pas utilisé pour longues périodes de temps.

14. Référez au personnel qualifié de service pour toutes réparations. La réparation est donnée quand le système a été endommagé à n'importe façon, par exemple un fil ou une fiche endommagé(e) de la source d'alimentation. Avoir été exposé à pluie ou humidité, n'opère pas normalement, ou avoir été tombé.
15. L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.
16. Branchez l'appareil à une source appropriée et faire que la prise à débrancher soit facilement accessible.
17. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.
18. AVERTISSEMENT: Pour éviter le risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à l'humidité.
19. Un appareil avec la borne de terre de protection doit être connecté au secteur avec la connexiion de terre de protection.
20. Assurez-vous que l'appareil est hors tension avant de connecter les hauts parleurs. Verifiez que la sortie des enceintes soit protégées contre un contact physique. Respecter les polarités des terminaux ainsi que le câblage des enceintes pendant le fonctionnement afin d'assurer une utilisation sécurisee.

XRS SERIES

Building on the reliability and sonic quality of the very popular XR speaker series, Australian Monitor brings you the XRS two way injection moulded speaker enclosures with more features and new aesthetic to suit both live sound reinforcement and permanent installation. From front of House to foldback, the dance floor to background fill, the XRS series with passive, powered and constant voltage/weatherproof options are designed with flexibility and performance in mind.

The XRS range includes 8", 10" and 12" models all with high quality compression drivers and represent a significant advancement in injection moulded box design while maintaining excellent audio quality and great value for money.

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Revision 1.3 April 2011

WARNING!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

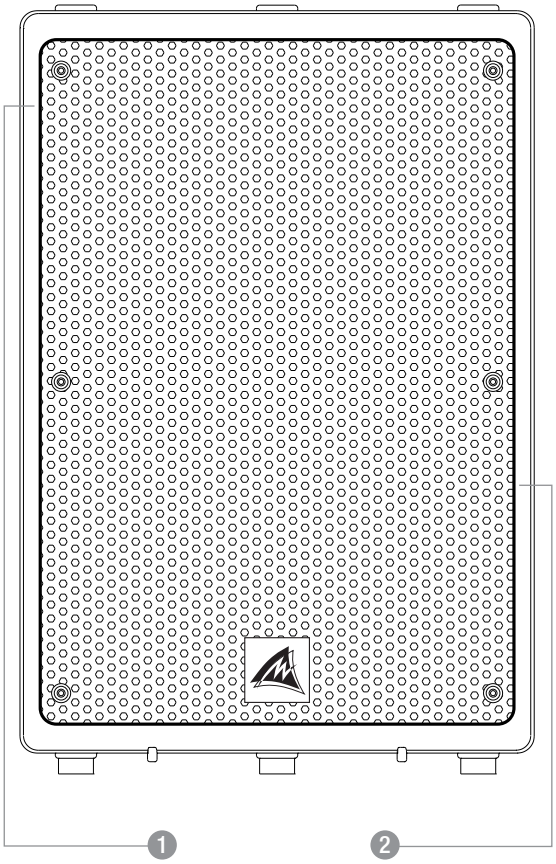
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Rating plate and caution marking are marked on the back enclosure of the apparatus

XRS FRONT PANEL – ALL VERSIONS



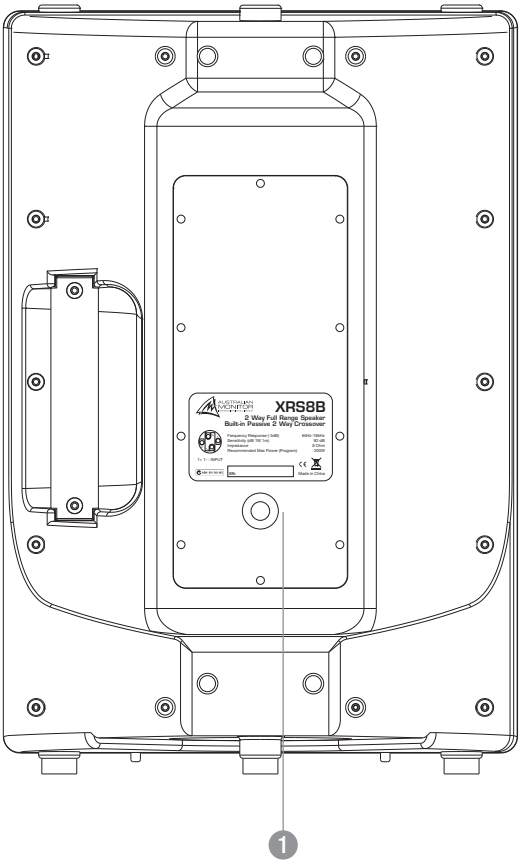
1 High Frequecy Driver

Horn loaded compression driver. Dispersion 90 H x 90 V.
Passive crossover in the passive and constant voltage XRS varients.
XRS8 1.5”
XRS10 1.5”
XRS12 2”
Active crossover and power amp in XRS powered varients.
XRS8P 50 W
XRS10P 50 W
XRS12P 100 W

2 Low Frequency Woofer

Driver sizes:
XRS8 8”
XRS10 10”
XRS12 12”

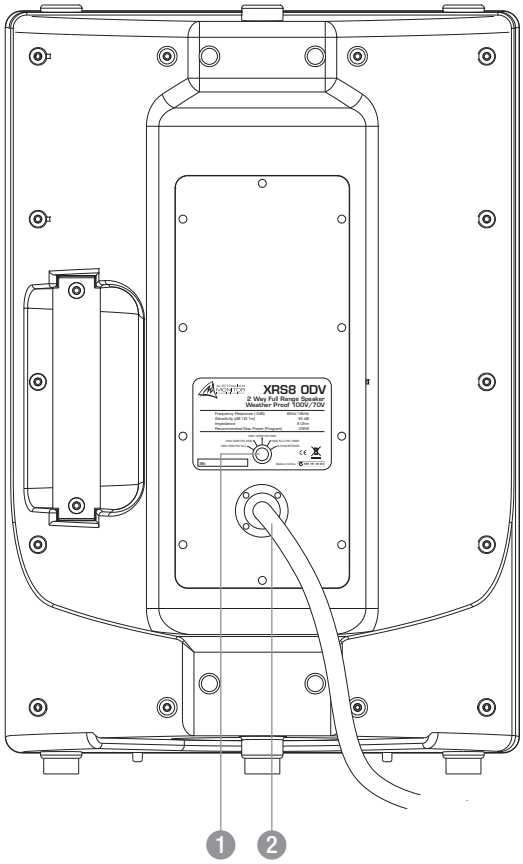
XRS8 B shown here



1 Speaker Input

The input connector is a 4 pole speakon compatible connector. Pins 1+ and 1- are wired to the +ve and -ve respectively of the speaker. The XRS10 and XRS12 have 2 connectors. They are wired in parallel so either connector can be used as an input, the other as a loop through.

XRS8 ODV



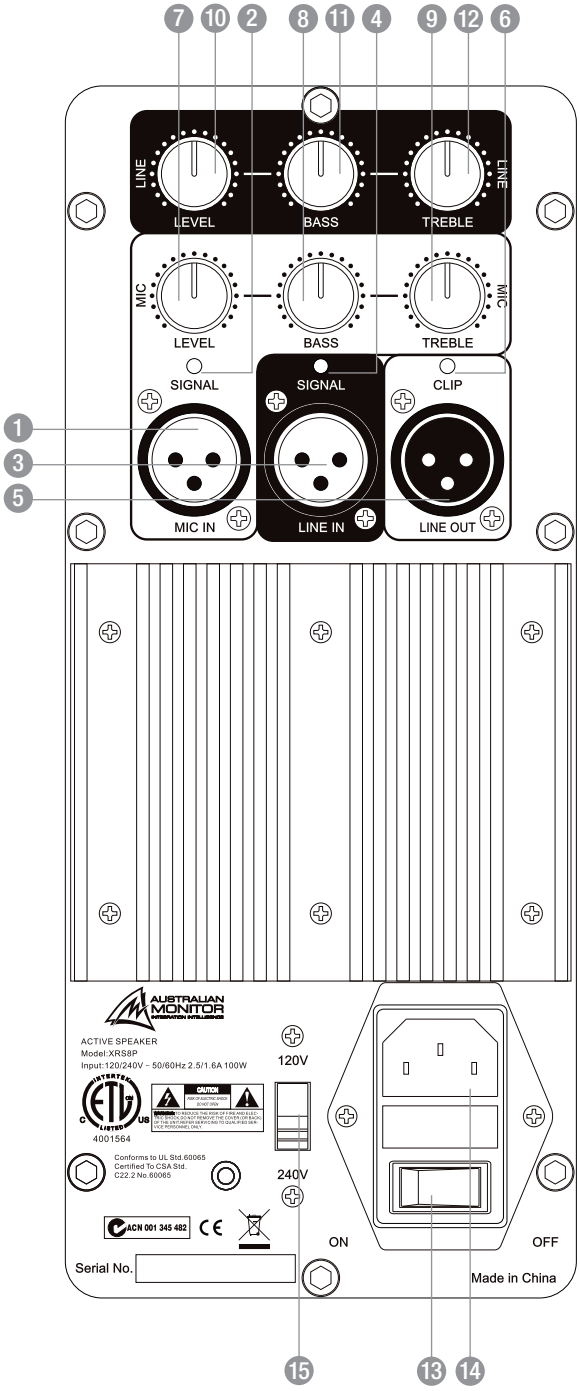
1 Voltage Tap Select Switch

The switch on the back of the XRS ODV speakers allows you to select the desired transformer tap. Each speaker has 3 taps at 70.7 V and 100 V, there is also a low impedance transformer bypass option.

2 Fly Lead

The fly lead coming out of the XRS ODV speakers is a 2 core speaker lead. The internal cores are red and black, red is positive and black is negative. The fly lead is used for both constant voltage and low impedance inputs.

XRS REAR PANEL POWERED VERSION



1 Mic In

This is a balanced XLR microphone input.

2 Mic Signal

This is a green LED signal present indicator for the Mic input. It indicates signal present on the input and is not affected by the level control.

3 Line In

This is a balanced XLR line level input.

4 Line Signal

This is a green LED signal present indicator for the Line input. It indicates signal present on the input and is not affected by the level control.

5 Line Out

The LINE OUT is on an XLR connector. This output can be connected to the LINE IN on another XRS Powered speaker to expand the system.

6 Output Clip

This is a red LED clip indicator for the mixed mic and line audio signal. Some flashing of red is acceptable on program transients. Continuous flashing of red could be placing undue stress on the speaker and will sound distorted. Turn down the input level until the clip LED is no longer lit.

7 Mic Level

This controls the level of the MIC input (1).

8 Mic Bass

This is the bass control for the MIC input (1). There is 12 dB of cut and boost at 100 Hz. This EQ is the shelving type.

9 Mic Treble

This is the treble control for the MIC input (1). There is 10 dB of cut and boost at 10 kHz. This EQ is the shelving type.

10 Line Level

This controls the level of the LINE input. (3)

11 Line Bass

This is the bass control for the LINE input (3). There is 12 dB of cut and boost at 100 Hz. This EQ is the shelving type.

12 Line Treble

This is the treble control for the LINE input (3). There is 10 dB of cut and boost at 10 kHz. This EQ is the shelving type.

13 Power Switch

This switch turns the power on or off to the unit.

14 IEC Mains Input Socket

This is a standard IEC 3 pin socket. It accepts a standard IEC mains cable, (provided). The fuse drawer contains the mains fuse and a spare.

The mains fuse is a time lag (slow blow) HRC 20mm x 5mm ceramic or glass type fuse.

	XRS8P	XRS10P	XRS12P
120 V	2.5 A	2.5 A	3.15
240 V	1.6 A	1.6 A	5.0

IMPORTANT: Always replace the fuse with one of the same value and type.

NOTE: Always disconnect power to the amplifier before replacing fuses.

15 Voltage Select Switch

This switch is used to select the mains voltage for your region. Select either 240 V of 120 V.

IMPORTANT: Disconnect power to the amplifier before operating this switch.

IMPORTANT: Make sure this setting is correct before connecting the unit to the mains.

MOUNTING

When mounting via a bracket or eyebolts the following must be considered.

The mounting of a permanently installed speaker may be dangerous unless undertaken by a qualified professional with the required experience.

Walls and mounting surfaces must be capable of safely and securely supporting the load of the speaker and bracketry.

Fixings must be safely attached to both the speaker and the wall or surface the speaker is to mount off. Fixings must be fitted in accordance with the makers instructions.

Suspending with Eyebolts

XRS speakers have the ability to be hung from eyebolts. As many eyebolt locations as possible should be used on the speaker. When mounting an XRS8 at least 2 or more mounting points should be used, for the XRS10 and XRS12 3 or more points should be used. The best way to hang a speaker using eyebolts is to use two eyebolts on the top of the speaker and one on the rear to give the speaker some angle.

All eyebolt fittings in the XRS range are M8, it is suggested to use a bolt with at least a 20 mm of thread length.

ACCESSORIES

XRS8

XR8PMA Pole mount adapter

XR8UMB Universal mounting bracket

XRS10

XR10CVR Heavy duty cover

AMISLSB1 Wall mount brackets

ATC303 Tripod speaker stand

ATC304 Heavy duty tripod speaker stand

ATC305 Winch up speaker stand

XR10-12UB Universal bracket

XRS12

XR12CVR Heavy duty cover

AMISLSB1 Wall mount brackets

ATC303 Tripod speaker stand

ATC304 Heavy duty tripod speaker stand

ATC305 Winch up speaker stand

XR10-12UB Universal bracket

SPECIFICATIONS

	XRS8 B/W	XRS10 B/W	XRS12 B/W
Impedance	8 Ohms	8 Ohms	8 Ohms
Power (Continuous, Program)	100 watts, 200 watts	250 watts, 500 watts	300 watts, 600 watts
Sensitivty (1 W / 1 M)	92 dB	95 dB	97 dB
Calculated max SPL	118 dB	125 dB	128 dB
Dispersion (-6 dB Points)	90 H x 90 V	90 H x 90 V	90 H x 90 V
Frequency Response (-3dB)	65 Hz - 18 kHz	55 Hz - 18 kHz	50 Hz - 18 kHz
Frequency Response (-10dB)	60 Hz - 20 kHz	50 Hz - 20 kHz	40 Hz - 20 kHz
Connection	Speakon	Speakon	Speakon
Components	1 x 8" Woofer, 1 x 1.5" HF Driver	1 x 10" Woofer, 1 x 1.5" HF Driver	1 x 12" Woofer, 1 x 2" HF Driver
Net Dimensions (W x D x H)	277 mm x 257 mm x 400 mm (per single) (10.9" x 10.1" x 15.7")	321 mm x 355 mm x 535 mm (12.6" x 12.1" x 18.3")	415 mm x 382 mm x 620 mm (16.3" x 15.0" x 24.4")
Shipping Dimensions (W x D x H)	595 mm x 310 mm x 460 mm (per pair) (23.4" x 12.2" x 18.1")	375 mm x 355 mm x 535 mm (14.8" x 14" x 21.1")	465 mm x 435 mm x 680 mm (16.3" x 15.4" x 23.6")
Net Weight	6.5 kg (14.3 lb) (per single)	10 kg (22 lb)	18 kg (39.7 lb)
Shipping Weight	15 kg (33.1 lb) (per pair)	12 kg (26.5 lb)	20 kg (44.1 kg)

	XRS8 P	XRS10 P	XRS12 P
Sensitivty (1 W / 1 M)			
Calculated max SPL	118 dB	121 dB	125 dB
Dispersion (-6 dB Points)	90 H x 90 V	90 H x 90 V	90 H x 90 V
Frequency Response (-3dB)	65 Hz - 18 kHz	55 Hz - 18 kHz	50 Hz - 18 kHz
Frequency Response (-10dB)	55 Hz - 18 kHz	50 Hz - 18 kHz	40 Hz - 20 kHz
Amplifier Type	Class AB	Class AB	Class AB
Power Requirements	AC 120V/240V 50/60Hz	AC 120V/240V 50/60Hz	AC 120V/240V 50/60Hz
Power Output	100 W (LF) + 50 W (HF)	100 W (LF) + 50 W (HF)	300 W (LF) + 100 W (HF)
Connection	3 Pin XLR	3 Pin XLR	3 Pin XLR
Components	1 x 8" Woofer, 1 x 1.5" HF Driver	1 x 10" Woofer, 1 x 1.5" HF Driver	1 x 12" Woofer, 1 x 2" HF Driver
Net Dimensions (W x D x H)	277 mm x 265 mm x 407 mm (10.9" x 10.4" x 16")	325 mm x 308 mm x 407 mm (12.8" x 12.1" x 18.9")	415 mm x 391 mm x 600 mm (16.3" x 15.4" x 23.6")
Shipping Dimensions (W x D x H)	355 mm x 325 mm x 470 mm (14" x 12.8" x 18.5")	375 mm x 355 mm x 535 mm (14.8" x 14" x 21.1")	465 mm x 435 mm x 680 mm (16.3" x 15.4" x 23.6")
Net Weight	8.6 kg (19 lb)	10.5 kg (23.1 lb)	23 kg (51 lb)
Shipping Weight	10.1 kg (22.3 lb)	11.8 kg (26 lb)	25.2 kg (55.6 lb)

SPECIFICATIONS

	XRS8 ODV	XRS10 ODV	XRS12 ODV
Impedance	8 Ohms (Bypass)	8 Ohms (Bypass)	8 Ohms (Bypass)
Power (Max Tap)	100 watts	250 watts	300 watt
Sensitivty (1 W / 1 M)	92 dB (8 Ohm Bypass)	95 dB (8 Ohm Bypass)	97 dB (8 Ohm Bypass)
Calculated max SPL	118 dB (8 Ohm Bypass)	125 dB (8 Ohm Bypass)	128 dB (8 Ohm Bypass)
Dispersion (-6 dB Points)	90 H x 90 V	90 H x 90 V	90 H x 90 V
Frequency Response (-3dB)	65 Hz - 18 kHz (8 Ohm Bypass)	55 Hz - 18 kHz (8 Ohm Bypass)	50 Hz - 18 kHz (8 Ohm Bypass)
Frequency Response (-10dB)	60 Hz - 20 kHz (8 Ohm Bypass)	50 Hz - 20 kHz (8 Ohm Bypass)	40 Hz - 20 kHz (8 Ohm Bypass)
Connection	Captive Fly Lead	Captive Fly Lead	Captive Fly Lead
Components	1 x 8" Woofer, 1 x 1.5" HF Driver	1 x 10" Woofer, 1 x 1.5" HF Driver	1 x 12" Woofer, 1 x 2" HF Driver
Net Dimensions (W x D x H)	277 mm x 265 mm x 407 mm (10.9" x 10.4" x 16")	325 mm x 308 mm x 407 mm (12.8" x 12.1" x 18.9")	415 mm x 391 mm x 600 mm (16.3" x 15.4" x 23.6")
Shipping Dimensions (W x D x H)	355 mm x 325 mm x 470 mm (14" x 12.8" x 18.5")	375 mm x 355 mm x 535 mm (14.8" x 14" x 21.1")	465 mm x 435 mm x 680 mm (16.3" x 15.4" x 23.6")
Net Weight	10 kg (22 lb)	16.5 kg (36.4 lb)	22 kg (48.5 lb)
Shipping Weight	12 kg (26.5 lb)	18.5 kg (40.8 lb)	24 kg (52.9 lb)

NOTES

ENGINEERED BY AUSTRALIAN MONITOR
Address: 1 Clyde Street, Silverwater, Sydney NSW 2128 Australia. Private Bag 149, Silverwater NSW 1811 ABN 78 001 345 482
Website: **www.australianmonitor.com.au** International enquiries email: international@australianmonitor.com.au

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